

ABSTRACT OF THE INVENTION

A color interpolation processor and the color interpolation calculation method thereof are disclosed. More particularly, they relates to a color interpolation processor and the color interpolation calculation method thereof that are implemented in a real-time image process system using charge couple devices (CCD) for sampling. The color interpolation calculation method of the present invention is to perform a computation of color interpolation by utilizing the edge directions weighting and local gain approach according to the luminance density determined by the green (G) component. Therefore, the quality of interpolation is improved. Meanwhile, because the computation technique of the present invention is not complicated, the cost is lower when the color interpolation calculation method of the present invention is implemented in image signal process system. Thus, the production cost is decreased tremendously.